

1 ATAATGGGAA AGTACA **ATGG** TTATTAAACC CGTAACAACT CCGAGTGTAA
 51 TACAATTAAC GCCTGATGAT AGAGTAACGC CTGATGATAA AGGTGAATAT
 101 CAACCCGTTG AAAAGCAAAT AGCGGGAGAT ATAATACGTG TACTAGAATT
 151 CAAGCAAACA AATGAAAGTC ATACAGGATT GTATGGAATT GCATATCGAG
 201 CTAAGAAAGT AATAATAGCA TATGCTTTAG TOX F2 CGGTAAGTGG TATTCATAAT
 251 GTCTCTCAAC TTCCAGAAGA CTATTATAAA AATAAGGATA ACACAGGTAG
 301 AATTTATCAA GAATACATGT CTAATCTTTT ATCTGCACTA TTGGGTGAGA
 351 ATGGTGATCA AATTTCTAAA GATATGGCAA ATGATTTTAC CCAGAACGAA
 401 CTGGAGTTTG GAGGTCAACG TCTTAAAAAT ACCTGGGATA TTCCTGATCT
 451 TGAGAATAAA CTATTGGAAG ATTATTCAGA TGAAGATAAA TTATTAGCAC
 501 TATATTTCTT TGCTTCACAA GAACTTCCAA TOX F1 TGGAGGCAAA TCAACAATCA
 551 AATGCAGCAA ATTTTTTTTAA AGTAATTGAT TTTTACTTA TOX R3 TCTTATCTGC
 601 TGTAACATCA CTGGGAAAAA GGATTTTTTC AAAAAATTTT TACAATGGTC
 651 TAGAAACTAA ATCATTAGAG AATTATATTG AGAGAAAAAA ACTTTCTAAA
 701 CCTTTCTTTC GACCACCGCA GAAGTTACCT TOX F3 GATGGCAGAA CAGGCTACTT
 751 GGCCGGTCCA ACAAAGCGC CTAAATTGCC AACAACGTCT TOX R4 TCTACAGCAA
 801 CAACGTCTAC AGCAGCTTCA TCTAATTGGA GAGTTAGTTT GCAAAAACCTT
 851 AGAGATAACC CATCCAGAAA TACATTTATG AAAATGGATG ATGCTGCAAA
 901 ACGAAAATAT AGTTCATTTA TAAAAGAGGT ACAAAGGGT AATGATCCAC
 951 GTGCAGCAGC AGCAAGTATT GGTACAAAAA GCGGCAGTAA CTTCGAAAAA
 1001 CTGCAAGGTA GAGATTTATA TAGTATAAGA A24AC1 CTAAGCCAAG AACACAGGGT
 1051 AACATTCTCC ATAAATAATA CTGACCAAAT AATGGAGATC CAAAGTGTTG
 1101 GAACTCATTA CAAAATATA **TAP** CCTGATT TATAGTAGTG ATAAGACGTA
 1151 AGATAAATAT GGAAGGTTGT AATTCTATTG CACTTCCTCA GAGGTGACCG
 1201 CTCAG

FIGURE 1 .

1 MVIKPVTTPS VIQLTPDDR VPDDKGEYQP VEKQIAGDII RVLEFKQTNE
51 SHTGLYGIAY RAKKVIIAYA LAVSGIHNVS QLPEDYYKNK DNTGRIYQEY
101 MSNLLSALLG ENGDQISKDM ANDFTQNELE FGGQRLKNTW DIPDLENKLL
151 EDYSDEDKLL ALYFFASQEL PMEANQQSNA ANFFKVIDFL LILSAVTSLG
201 KRIFSKNFYN GLETKSLENY IERKKLSKPF FRPPQKLPDG RTGYLAGPTK
251 APKLPTTSST ATTSTAASSN WRVSLQKLRD NPSRNTFMKM DDAAKRKYSS
301 FIKEVQKGND PRAAAASIGT KSGSNFEKLQ GRDLYSIRLS QEHRVTFSIN
351 NTDQIMEIQS VGTHYQNI

FIGURE 2

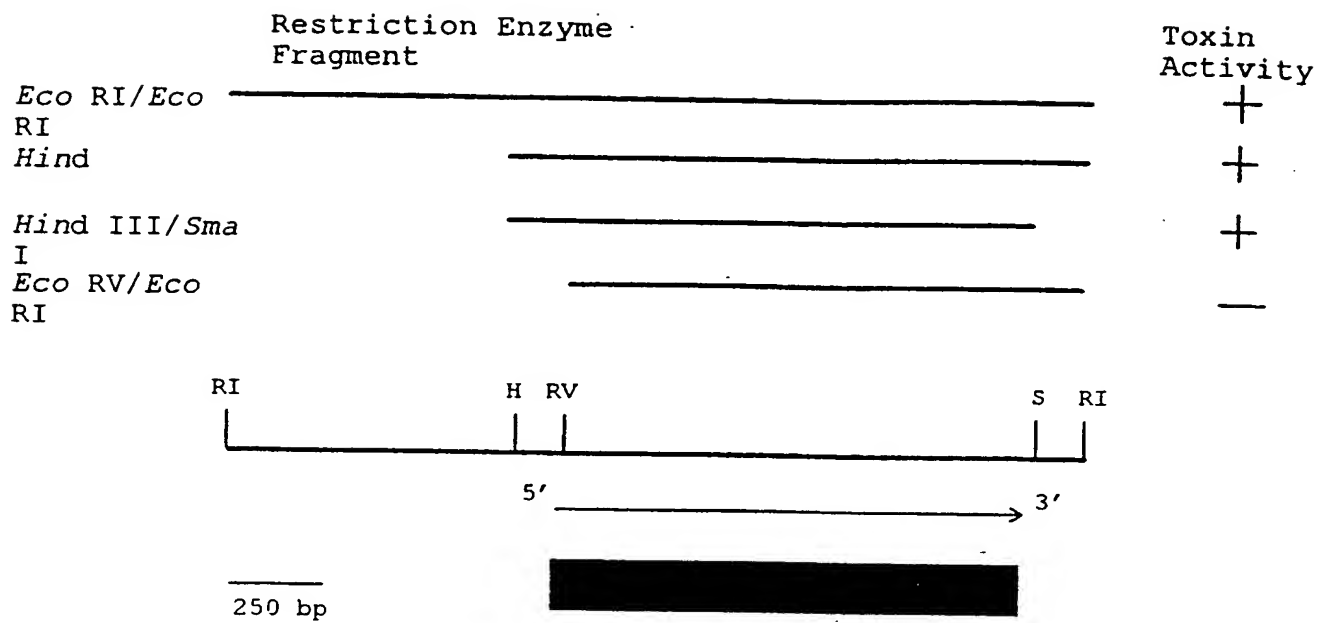


FIGURE 3

1 AAGCTTGCTA ATAATTCTTG CGTAAGTTAA TTTTACATTG AAATTAACGC
Hind III
 51 TTA AAAAAGCC AGG GAAACT CTATATTTAA AGTTGAAATT TATATTAGTA
 101 GCGACAAATT GCGGAGTTTT CTGCCAGAAA TTTCATAGCT CAAATAAACA
 151 TTAACATAAT GGAGAAATAT AATGGTTATA CAATTAACAC CTGATGATAG
 201 AAGTGGATAT CCACCCGTTG AAAAGCAAAT AGCAGGAGAT ATAGTACGTA
Eco RV
 251 TACTAAACTT TAAGCAAACA GATGAGGGTC ATACAGCATC ATATGGAATT
 301 GAATATCGAG CTAAGAAAAT AATATTAGCT TACGCTTTGG CTGTAAGTGG
AC4R
 351 TATTCATAAT GTATCTAAAC TTCCTGATGA CTATTATAAG AATAAAGAGA
 401 CTGCTGAGAG AATTTATCAA GAATATATGT CTAATCTTTC ATCTGCACTA
 451 TTAGGTGAAA ATGGTGATCA AATTTCTAAA GATATGGCAA ATGGTTTTTA
AC2F
 501 TAAGAATGAA CTGGATTTTG AAGGTCAATA TCCTCAAAAC ATTTGGAATG
 551 TTCCTGAGCT TGAAAATAAA CCATTGAGTG CTTATTCAGA TGACGATAAA
AC7R
 601 TTATTAGCAC TATATTTTTT CTCTGTACAG GAAATCCAC TGGAGGAAAA
 651 TCAACAATCA AATGCCGCAA GATTTTTTAA ATTAATTGAT TTCTTATTTA
 701 CCTTATCTGC TGTAACCTCA CTGGGAAGGA GGATTTTTTC AAAAACTTT
 751 TACAATGGAT TAGAGGCTAA ATCATTAGAG AATTATATTG AGAGAAAAAA
AC6F
 801 ACTTTCTAAA CCTTCTTTC GACCACGCA GAGATTACCT GATGGCAGAA
 851 TAGGTTATTT GGCTGGACCA ACAGAAGCGC CTAAATGGAG AGTGAGTTTT
AC5R
 901 AAAGAACTTA AAAATAACAA ATCTAGGAAT GGATTTTCTA ATATGGAAGG
 951 GGCTGCAAAA CAAAAGTATA GTTCATTTAT AAAAGAGGTA CAAAAGGGTA
 1001 ACGCTCCACA GACAGCAGCG AAAAGTATTG GTACAGCCAG TGGCAGTAAC
 1051 CTGGAAAAAT TGCCGAATAA TTTATATAGT GTGAGGCTAA GCCAAAAAGA
AC3F
 1101 CAGGGTAACC TTTACTCAA ATGATACTGA CAATACAATG ACGGTTTCATA
AC8R
 1151 GTGTTGGAAC TCATTATAAA AATATATGAT GAGTAATCTC TGACTTCGAT
 1201 TGACAGAGCA TTTTAAAGCT CTCATTTTCT CAACGGGAGT CTCATAAGGC
 1251 GTTTTACTTT TCAAGCCACT ATGTGGTCTG TGATAATTGT AAAACGCCTT
 1301 CTTTTAGCCA ATACACTTTA CTACCAAGAA AATATATACC CTATGGATTT
V16AC1
 1351 CAAGATGGAT CGCGGCGGCA AGGGAGCGAA TCCCCGGG
Sma I

FIGURE 4

1 MVIQLTPDDR SGYPPVEKQI AGDIVRILNF KQTDEGHTAS YGIEYRAKKI
51 ILAYALAVSG IHNVSKLPDD YYKNKETAER IYQEYMSNLS SALLGENGDQ
101 ISKDMANGFY KNELDFEGQY PQNIWNVPEL ENKPLSAYS DDKLLALYFF
151 SVQEIPLEEN QQSNAARFFK LIDFLFTLSA VTSLGRRIFS KNFYNGLEAK
201 SLENYIERKK LSKPFFRPPQ RLPDGRIGYL AGPTEAPKWR VSFKELKNNK
251 SRNGFSNMEG AAKQKYSSFI KEVQKGNAPQ TAAKSIGTAS GSNLEKLPNN
301 LYSVRLSQKD RVTFTQNDTD NTMTVHSVGT HYKNI

FIGURE 5

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17  ATGGTTATTAAACCCGTAACAACTCCGAGTGTAATACAATTAACGCCTGA 66
172  .....ATGGT 176

67  TGATAGAGTAACGCCTGATGATAAAGGTGAATATCAACCCGTTGAAAAGC 116
177  TATACAATTAACACCTGATGATAGAAGTGGATATCCACCCGTTGAAAAGC 226

117  AAATAGCGGGAGATATAATACGTGTACTAGAATTCAAGCAAACAAATGAA 166
227  AAATAGCAGGAGATATAGTACGTATACTAACTTTAAGCAAACAGATGAG 276

167  AGTCATACAGGATTGTATGGAATTGCATATCGAGCTAAGAAAGTAATAAT 216
277  GGTATACAGCATCATATGGAATTGAATATCGAGCTAAGAAAATAATATT 326

217  AGCATATGCTTTAGCGGTAAGTGGTATTTCATAATGTCTCTCAACTCCAG 266
327  AGCTTACGCTTTGGCTGTAAGTGGTATTTCATAATGTATCTAACTTCCTG 376

267  AAGACTATTATAAAAATAAGGATAACACAGGTAGAATTTATCAAGAATAC 316
377  ATGACTATTATAAGAATAAAGAGACTGCTGAGAGAATTTATCAAGAATAT 426

317  ATGTCTAATCTTTTATCTGCACTATTGGGTGAGAATGGTGATCAAATTC 366
427  ATGTCTAATCTTTCATCTGCACTATTAGGTGAAAATGGTGATCAAATTC 476

367  TAAAGATATGGCAAATGATTTTACCCAGAACGAACTGGAGTTTGGAGGTC 416
477  TAAAGATATGGCAAATGGTTTTTATAAGAATGAACTGGATTTTGAAGGTC 526

417  AACGTCTTAAAAATACCTGGGATATTCTTGATCTTGAGAATAAACTATTG 466
527  AATATCCTCAAAACATTTGGAATGTTCTGAGCTTGAAAATAAACCATTG 576

467  GAAGATTATTGAGATGAAGATAAATTATTAGCACTATATTTCTTTGCTTC 516
577  AGTGCTTATTGAGATGACGATAAATTATTAGCACTATATTTTTCTCTGT 626

517  ACAAGAACTTCCAATGGAGGCAAATCAACAATCAAATGCAGCAAATTTTT 566
627  ACAGGAAATTCCACTGGAGGAAAATCAACAATCAAATGCCGCAAGATTTT 676

567  TTAAAGTAATTGATTTTTTACTTATCTTATCTGCTGTAACATCACTGGGA 616
677  TTAAATTAATTGATTTCTTATTTACCTTATCTGCTGTAACCTCACTGGGA 726

617  AAAAGGATTTTTTCAAAAAATTTTTACAATGGTCTAGAACTAAATCATT 666
727  AGGAGGATTTTTTCAAAAACTTTTACAATGGATTAGAGGCTAAATCATT 776

667  AGAGAATTATATTGAGAGAAAAAACTTTCTAAACCTTTCTTTTCGACCAC 716
777  AGAGAATTATATTGAGAGAAAAAACTTTCTAAACCTTTCTTTTCGACCAC 826

717  CGCAGAAGTTACCTGATGGCAGAACAGGCTACTTGGCCGGTCCAACAAAA 766
827  CGCAGAGATTACCTGATGGCAGAATAGGTTATTTGGCTGGACCAACAGAA 876

```

Figure 6

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767 GCGCCTAAATTGCCAACACGTCTTCTACAGCAACAACGTCTACAGCAGC 816
      |||||
877 GCGCCTAAA..... 885

817 TTCATCTAATTGGAGAGTTAGTTTGCAAAACTTAGAGATAACCCATCCA 866
      ||||| ||||| || ||||| ||||| |||||
886 .....TGGAGAGTGAGTTTAAAGAACTTAAAAATAACAAATCTA 925

867 GAAATACATTTATGAAAATGGATGATGCTGCAAAACGAAAATATAGTTCA 916
      ||||| ||||| || ||||| || ||||| ||||| |||||
926 GGAATGGATTTTCTAATATGGAAGGGGCTGCAAAACAAAAGTATAGTTCA 975

917 TTTATAAAAGAGGTACAAAAGGGTAATGATCCACGTGCAGCAGCAGCAAG 966
      ||||| ||||| ||||| ||||| ||||| ||||| |||||
976 TTTATAAAAGAGGTACAAAAGGGTAACGCTCCACAGACAGCAGCGAAAAG 1025

967 TATTGGTACAAAAGCGGCAGTAACCTCGAAAACTGCAAGGTAGAGATT 1016
      ||||| || ||||| || ||||| ||||| || |||||
1026 TATTGGTACAGCCAGTGGCAGTAACCTGGAAAAATTGCCGAATA...ATT 1072

1017 TATATAGTATAAGACTAAGCCAAGAACACAGGGTAACATTCTCCATAAAT 1066
      ||||| || ||||| || ||||| ||||| || |||||
1073 TATATAGTGTGAGGCTAAGCCAAAAGACAGGGTAACCTTTACTCAAAAT 1122

1067 AATACTGACCAAATAATGGAGATCCAAAGTGTTGGAACCTATTACCAAAA 1116
      ||||| || ||||| || ||||| ||||| ||||| |||||
1123 GATACTGACAATACAATGACGGTTCATAGTGTTGGAACCTATTATAAAA 1172

1117 TATA... 1120
      ||||
1173 TATATGA 1179

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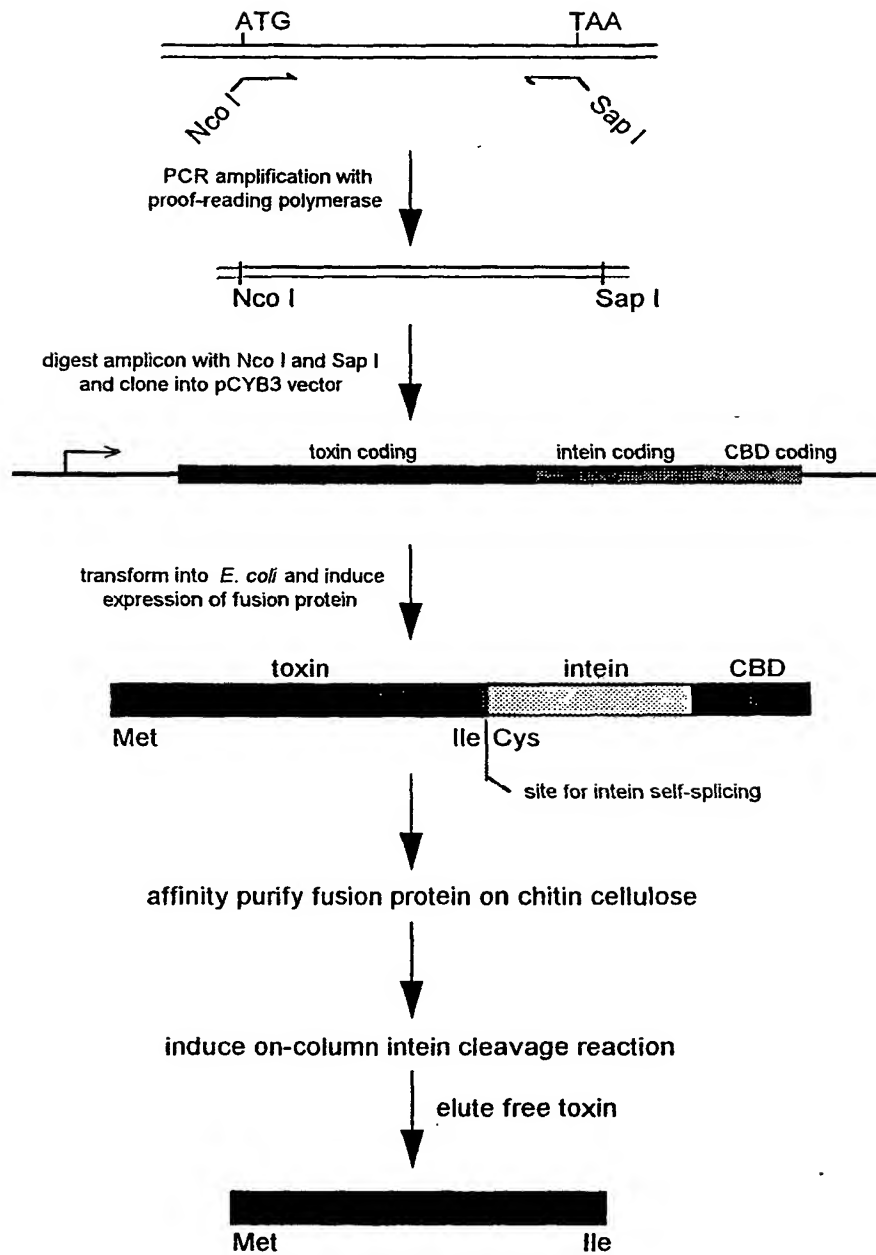
Figure 6 continued

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1 MVIKPVTTPSVIQLTPDDRVT PDDKGEYQ PVEKQIAGDI IRVLEFKQTNE 50
  ||||| :|.|||||:|:|:|:|
1 .....MVIQLTPDDR.....SGYPPVEKQIAGDIVRILNFKQTDE 35
51 SHTGLYGIAYRAKKVIIAYALAVSGIHNVSQLPEDYYKNKNDNTGRIYQEY 100
  :|: |||.|||||:|:|||||:|:|:|:|:|:|:|:|:|:|:|:|
36 GHTASYGIEYRAKKIILAYALAVSGIHNVSKLPDDYYKNKETAERIYQEY 85
101 MSNLLSALLGENGDQISKDMANDFTQNELEFGGQRLKNTWDIPDLENKLL 150
  ||| |||||:|:|:|:|:|:|:|:|:|:|:|:|:|:|:|:|:|:|
86 MSNLSSALLGENGDQISKDMANGFYKNELDFEGQYPQNIWNVPELENKPL 135
151 EDYSDKLLALYFFASQELPMEANQQSNAANFFKVIDFLLILSAVTSLG 200
  ..||:|||||. ||:|:|.|||||. ||:|:|:|. |||||
136 SAYSDDDKLLALYFFSVQEI PLEENQQSNAARFFKLIDFLFTLSAVTSLG 185
201 KRIFSKNFYNGLETKSLENYIERKKLSKPFFRPPQKLPDGRGTGYLAGPTK 250
  :|||||:|:|:|:|:|:|:|:|:|:|:|:|:|:|:|:|:|:|
186 RRIFSKNFYNGLEAKSLENYIERKKLSKPFFRPPQRLPDGRIGYLAGPTE 235
251 APKLPTTSSTATTSTAASSNWRVSLQKLRDNPSRNTFMKMDDAAKRYSS 300
  ||| |||:..|:|.|||. |.:|:|:|.|||
236 APK.....WRVSFKELKNNKSRNGFSNMEGAQKYSS 268
301 FIKEVQKGNDFRAAAASIGTKSGSNFEKLQGRDLYSIRLSQEHRVTFSIN 350
  |||||:|:|:| ||| |||:|:|:| :|:|:|:|:|:|:|:|
269 FIKEVQKGNAPQTAASIGTASGSNLEKLPN.NLYSVRLSQKDRVTFTQN 317
351 NTDQIMEIQSVGTHYQNI 368
  :|:|:|:|:|:|:|:|:|
318 DTDNTMTVHSGVTHYKNI 335

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FIGURE 7

**Figure 8.**